

CONCRETE CONSTRUCTION

ANNUAL INDEX: 1973

Photocopies of the following articles are available at a cost of 25 cents per page plus postage. Requests should be directed to: Book and Reprint Division, *Concrete Construction*, P. O. Box 555, Elmhurst, Illinois 60126

AGGREGATES	MONTH	PAGE
Dig That Broken Concrete It may provide much of the aggregate of the future. (2 pages)	Feb.	47
Best Coarse Aggregate Size For paving and building construction it should be 3/4 to 1 1/2 inches maximum. (2 pages) ..	Apr.	202
ARCHITECTURAL CONCRETE		
The Sydney Opera House Nears Completion Construction took nearly 14 years. (1 page)	Mar.	133
Consult Your Engineer Before Designing Architectural Concrete Collaboration between architect and engineer can produce more economical design. (2 pages)	May	223
Producing a Boardmarked Finish for Art Center The secrets of a handsome finish for Mellon Art Center. (1 page)	July	320
How to Obtain Predictable Architectural Concrete By: James M. Shilstone Keys to what is critical to different types of finishes. (6 pages)	Aug.	363
How the Temple Rose on the Mountain Shotcreting gets its first use in Panama. (2 pages)	Aug.	369
Architectural Concrete Panels on Display An idea that can cut conference time for architects, contractors, owners. (3 pages)	Sep.	423
ASSOCIATIONS		
Subcontractors Sleeping giant of the construction industry? (2 pages)	Jan.	28
AUXILIARY MATERIALS		
Anchor Bolts Useful in Installation of Crash Barriers Installation time reduced with use of parabolic anchor bolts. (1 page)	May	236
Space Age Wiring Helps Concrete New inexpensive wiring materials developed by NASA. (1 page)	May	238
CEMENT		
Special Cements and Their Uses Specific functions in terms of application, performance and durability. (5 pages)	Jan.	3
COMMUNICATIONS		
What Can Concrete Construction Do for Me? The many services available and how to use them. (3 pages)	Jan.	13

CONCRETE SYSTEMS	MONTH	PAGE
Panelizing and Shotcreting Simple new building system produces inexpensive reinforced concrete walls. (2 pages)	Oct.	475
DISCOLORATION AND BLEMISHES		
Some Notes on Color Variation in Concrete Age, atmosphere, mix inconsistencies and hydration can take their toll. (1 page)	Oct.	498
EARTHQUAKE PERFORMANCE		
Earthquake-resistant Construction Shear wall designs take fuller advantage of properties unique to concrete and outperform ductile frames. (2 pages)	June	266
FAILURES		
Failure of Concrete to Set Some reasons why it happens. (2 pages)	Apr.	205
FERROCEMENT		
Consider the Concrete Canoe This year's chapter for the annals of concrete canoe making. (1 page)	Sep.	426
FIBER-REINFORCED CONCRETE		
Pavement Resurfaced with Fibrous Concrete to Provide Service Test Steel fibers added to mix design. (1 page)	Feb.	70
A New Dimension in Bridge Deck Construction The first use of fibrous concrete topping for deck repair. (4 pages)	July	321
FINISHING PLASTIC CONCRETE		
Surface Voids Can Be Controlled By: Hrista Stamenkovic How to move them out of fresh concrete. (3 pages)	Dec.	597
FLOORS		
Floor Construction Speeded by Grinding Quality floors produced at less cost; troweling eliminated. (3 pages)	Apr.	146
Rules for Nondusting Floors The causes of dusting can be varied. (1 page)	Apr.	182
Grinding Floors is an Old Technique By: Jacob Feld Two examples of early applications. (3 pages)	Oct.	479
The Reasoning Behind Good Concrete Floor Construction Practices — A Special Issue:		
Making Floor Surfaces Hard. (2 pages)	Nov.	515
How Cracking is Controlled. (4 pages)	Nov.	517
Good Concrete Floors Start with the Mix. (2 pages)	Nov.	521
Preparing the Site. (2 pages)	Nov.	523
The Art and Skill of Finishing Floors (5 pages)	Nov.	525
Emergency Measures. (1 page)	Nov.	529
Floor Construction with Pumped Concrete. (3 pages)	Nov.	530
How to Adjust to Hot and Cold Weather Conditions. (4 pages)	Nov.	534
Will the Owner Get the Floor He Expects? (4 pages)	Nov.	540
Seal out Water Vapor. (2 pages)	Nov.	550
Protection for Parking Garage Floors. (1 page)	Nov.	556
Hardwood and Plywood Floors Give Way to Cellular Concrete. (1 page)	Nov.	582
What the Floor Designer Should Know. (3 pages)	Dec.	601
Can Crack-free Floors Be Built on Steel Decks? (1 page)	Dec.	592

	MONTH	PAGE
FORMING		
Prefab Forming Systems Job-built forms have their place, but dollar-wise contractors know when to use prefabricated systems. (4 pages)	Feb.	42
Rapid House Construction with Mobile Forms Three walls and a roof are placed integrally. (2 pages)	Mar.	97
Preparing the Formwork Layout Following the standard procedures may transform a bewildering task to a straightforward job. (4 pages)	Mar.	103
Estimating Formwork Realistic appraisals and how to combine the manufacturer's estimating resources with your own. (4 pages)	Apr.	149
Refinements in Slipforming Equipment New developments can mean better profits for contractors. (1 page)	May	240
Ganging Fiberglass-reinforced Plastic Forms That fine finish is not always extra work. (2 pages)	Aug.	367
Constructing Slabs Without Shoring U-shaped steel truss sets or strips two ganged forms at one pick. (1 page)	Aug.	415
Effect of Formwork on Concrete How interactions between concrete and formwork affect concrete quality. (5 pages)	Sep.	429
Elements of Formwork Erection Assembling strategic combinations of prefabricated and job-built pieces. (3 pages)	Oct.	467
Module-formed Ohio River Locks By: John Symons Standard cantilevered form panels produce massive results. (2 pages)	Oct.	471
Techniques for Efficient Gang Forming (3 pages)	Dec.	587
FORMS AND FORMING MATERIALS		
Integral Forms for Wall Construction Forms are no longer tools but part of the structure. (4 pages)	May	213
Natural Exposed Aggregate Finish Produced by a Form Liner Contractors soon may be able to purchase exposed aggregate surfaces from a catalog. (1 page)	May	234
FOUNDATIONS		
Slurry Wall Construction Economy, convenience and versatility where foundation construction is normally difficult. (4 pages)	Mar.	90
Wood Foundations — Shortcomings and Dangers Shortcomings outweigh cost savings. (1 page)	Apr.	178
Wood Products Organizations Still Seek Footer, Foundation and Basement Markets (1 page)	Dec.	604
HIGH-RISE BUILDINGS		
New Concepts in Tall Buildings Reported at international conference held at Lehigh University. (1 page)	Apr.	204
HISTORY		
More Projects for the Record Six record-setters are described. (2 pages)	Feb.	49
The Construction of the Panama Canal After 58 years of service, the concrete is hard and in excellent condition. (5 pages)	July	315
First Cast-in-place Structure Ponce de Leon Hotel in St. Augustine. (1 page)	Aug.	400

MANAGEMENT

Work Efficiency Decreases at Abnormal Temperatures Production loss can vary from 12 to 75 percent. (2 pages)	Jan.	9
Combating Equipment Theft Identification system devised by Associated General Contractors. (1 page)	Mar.	144
What is "Substantial Completion"? Potentially troublesome words; suggestions on how to apply them to specific contracts. (3 pages)	Apr.	162
An Unusual Lease-build Program What it can mean for contractors. (2 pages)	July	359
Concrete on Camera By: Ralph Jennings Effective recording of job techniques. (2 pages)	Oct.	477
Programmable Calculators Bridge the Gap for Estimators Machines that can take the tedium out of cost estimating. (2 pages)	Dec.	593
MARINE CONCRETE		
Floating Concrete Sidewalks, Docks and Platforms A listing of manufacturers. (1 page)	July	358
A Two-acre Concrete Island The story of Ekofisk in the North Sea. (4 pages)	Sep.	419
MATERIALS HANDLING		
The Ready Mixer Who Delivers by Pump By: James K. Brus Concrete delivered directly to the forms can be a convenience and a money saver. (2 pages)	Jan.	17
Transporting and Handling Concrete — Parts V through VIII of an eight-part series By: William C. Panarese Part V: Concrete for Pumping Special focus on aggregate grading and absorption, water content and admixtures. (6 pages)	Feb.	51
Part VI: Lightweight Concrete for Pumping High water absorption and different grading requirements of lightweight aggregates. (3 pages)	Apr.	155
Part VII: Job Practices in Pumping Concrete Operating and equipment factors for all locations, job sizes and temperatures. (7 pages)	June	273
Part VIII: Monorail Delivery and Mobile Batchers-mixers Monorail for difficult terrain; batchers-mixers for ease in adjusting mix proportions or batch sizes at jobsites. (3 pages)	Aug.	371
PAVING		
Full Scale Prestressed Test Pavements Field investigations yield data on construction methods, jointings, maximum slab length, and plastic-encased vs. grouted prestressing tendons. (2 pages)	Jan.	11
PRECASTING		
Yugoslav System of Modular Construction By: Hrista Stamenkovic Components and Connections in Post-tensioned Modular System (5 pages)	May	226
Casting Operations for Yugoslav Post-tensioned Modular System (2 pages)	June	271

PRESTRESSING	MONTH	PAGE
Grouting and Protection of Post-tensioning Tendons — a three-part series		
By: Sidney Freedman		
Part I: Post-tensioning Tendons, Ducts and Grout Materials. (6 pages)	May	210
Part II: Post-tensioning Grouts and Grouting Equipment. (3 pages)	June	277
Part III: Ensuring the Life of the Tendons. (5 pages)	Sep.	421
REINFORCEMENT		
Galvanized Rebars Being Tested to Reduce Bridge Deck Deterioration		
Tests conducted on five bridge decks in Detroit and Philadelphia. (1 page)	Mar.	132
The Function of Reinforcing Steel		
A few basics on how it works. (1 page)	July	350
REPAIRING		
Rapid Repair of Sewer Line Leaks		
A new grouting system is outlined. (1 page)	Jan.	16
Concrete Sawing and Drilling		
By: Lester F. Kuzmick		
Expert service is available for complex jobs. (2 pages)	June	269
SAFETY		
OSHA Strikes Back		
Explanations, definitions and practices offered by U. S. Department of Labor. (4 pages)	July	325
Get Rid of Those Fire Hazards		
OSHA finds them among the most common of standards violations. (1 page)	Oct.	505
SCULPTURE		
Concrete in the Hands of an Artist		
Still another dimension of this versatile material is revealed. (3 pages)	Aug.	375
SNOW MELTING		
New Snow Melting System		
System automatically detects falling snow and then turns itself off when snow and ice are melted. (1 page)	Apr.	188
SUMMER CONCRETING		
Hot Weather Concreting		
By: Milton H. Wills		
Recommendations for cooling concrete or using cements tailored for hot weather use. (3 pages)	May	219
TESTING		
Impact Strength of Concrete		
Tests of its strength under various types of impact. (1 page)	Oct.	496
VIBRATING		
Better Slabs and Beams by Effective Compaction		
By: Shu-t'ien Li		
Mix, steel arrangement and vibrator operation determine the result. (2 pages)	Mar.	95
Better Columns and Walls by Effective Compaction		
By: Shu-t'ien Li		
Making concrete flow into the difficult spots. (2 pages)	Apr.	159
WATERPROOFING		
Firm Foundations Below the Water Table		
By: Paul Broer		
Traditional methods of waterproofing are not adequate if structure must extend below the water table. (2 pages)	Oct.	473

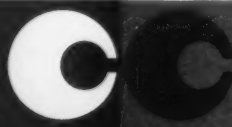
CC

FROM
CONCRETE CONSTRUCTION

catalog of books and reprints

free!

Complete descriptions of thirty different publications on various phases of building and designing with concrete are presented in this new catalog. These books and reprint collections — all recently published by The Portland Cement Association, The British Cement and Concrete Association, Concrete Construction Publications and others — form the basis of an outstanding library of technical information useful at all levels . . . from the professional engineer to the apprentice finisher.



Write for free copy: Book Division
CONCRETE CONSTRUCTION
P.O. Box 555
Evanston, Illinois 60126
Circle key number 235
on the reader service card.